# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 05/29/2020 10:36 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 02/04/2020 09:45 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

| | | | |
|---|---|---|---|
| Bead Product: | CST Setup Beads | Part #: | 910859 |
| Lot ID: | 80996 | Expiration Date: | 04/30/2020 (Expired) |
| Bead Lot Information: | Available | | |

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 125693 | 0 | 1.88 | 125813 | 1.92 |
| Blue | F | SSC | 125000 | 124763 | -1 | 1.63 | 125463 | 1.6 |
| Blue | E | FITC | 15892 | 15647 | -2 | 2.83 | 341 | 20.56 |
| Blue | D | PE | 29999 | 29319 | -3 | 1.94 | 638 | 14.99 |
| Blue | B | PerCP-Cy5-5 | 43732 | 43813 | 0 | 3.66 | 1179 | 21.1 |
| Blue | A | PE-Cy7 | 30845 | 31214 | 1 | 6.15 | 596 | 40.63 |
| Red | C | APC | 46112 | 45318 | -2 | 2.45 | 1598 | 12.44 |
| Red | A | APC-Cy7 | 30458 | 30003 | -2 | 2.37 | 792 | 11.93 |
| Violet | B | V450 | 7918 | 7549 | -5 | 4.44 | 437 | 12.91 |
| Violet | A | V500 | 32171 | 30895 | -4 | 4.18 | 727 | 10.15 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 17305 | 8.97 | 630 | 9 | N/A | N/A | Pass |
| Blue | F | SSC | 57596 | 1.14 | 569 | 10 | N/A | N/A | Pass |
| Blue | E | FITC | 61 | 62.06 | 548 | 5 | 0.0178 | 41 | Pass |
| Blue | D | PE | 134 | 48.89 | 553 | 5 | 0.1481 | 226 | Pass |
| Blue | B | PerCP-Cy5-5 | 218 | 49.75 | 660 | 4 | 0.0082 | 3 | Pass |
| Blue | A | PE-Cy7 | 110 | 102.05 | 703 | 5 | 0.0111 | 20 | Pass |
| Red | C | APC | 382 | 25.63 | 591 | 7 | 0.0228 | 114 | Pass |
| Red | A | APC-Cy7 | 176 | 28.86 | 562 | 6 | 0.0057 | 1119 | Pass |
| Violet | B | V450 | 66 | 56.69 | 461 | 3 | 0.0482 | 1710 | Pass |
| Violet | A | V500 | 108 | 29.38 | 477 | 3 | 0.0235 | 227 | Pass |

## Specifications

| | |
|---|---|
| PMTV Delta from baseline: | 50 (BD) |
| Violet Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Blue Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Red Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |

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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.98 - 71.98 | N/A | N/A | -33.08 | -32.29 | 0.98 |
| Blue | 20.35 | 16.27 - 24.41 | 1.26 | 0.99 - 1.49 | 0.00 | 0.00 | 1.43 |
| Red | 16.19 | 13.60 - 20.40 | N/A | N/A | 29.41 | 30.19 | 1.18 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.87

## Threshold

Threshold (FSC): 10523

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.60
Spec.: 3.80 - 4.00

Comments